U.S. Navy Fact Sheet

Sonar and Marine Mammals

The Need for Active Sonar Training

The U.S. Navy is a responsible steward of the environment in which we operate, and we recognize the need to protect marine life. At the same time, the proliferation of modern, quiet submarines in recent years has increased the Navy's need to use active sonar to protect our Sailors and Marines at sea.

- Dozens of navies around the world possess and continue to obtain modern submarines. These extremely quiet vessels pose a serious threat to national security, the safety of our armed forces, and our nation's economic vitality.
- Active sonar is the only effective means available today to detect, track, and target modern subs under all ocean conditions.

Understanding Sonar in Context

The U.S Navy recognizes that active sonar may affect marine mammals under certain conditions. However, it is important to recognize that numerous sounds and other factors in the ocean environment likely have a greater impact.

- Some claim that U.S. Navy sonar is a major cause of marine mammal strandings. However, even considering incidents with only circumstantial evidence of sonar involvement, sonar-related strandings occur very rarely. Placed into context with the thousands of strandings that occur every year around the world, it is clear that many other factors are being ignored.
- Often overlooked causes of strandings include fishery entanglements, pollution, disease, parasite infestation, ship strikes, trauma, and starvation. Strandings also occur after unusual weather or oceanographic events.
- A recently publicized report by the United Nations Environment Programme (UNEP) rated sonar last among current threats to dolphins, porpoises and related species. Sonar was reported to threaten only about 4 percent of these species, compared with 70 percent endangered by fishing and 56 percent by pollution. (http://www.unep.org, "Fishing Nets Major Risk for Small Cetaceans").
- Only about 90 U.S. Navy ships are equipped with active sonar. Active sonar is used sparingly because it reveals the sending ship's position. Navy ships prefer to use passive sonar the majority of the time.
- Approximately 15,000 large ships ply the world's oceans daily. In contrast, about 128 U.S. Navy ships and 22 U.S. Navy submarines are presently underway. About 58% of U.S. Navy ships and all subs are equipped with active sonar, which is used sparingly (approximately 1% of the time).
- Worldwide naval use of active sonar has been correlated with the stranding of approximately 50 whales during the 10-year period from 1996-2006. To help put this number in perspective, this equates to less than 1/4 of 1% of the 3500+ strandings that occur each year on U.S. shores.

Navy Marine Mammal Protection Efforts

The U.S. Navy exercises caution when operating in areas likely to contain marine mammals. Efforts to minimize potential effects on marine mammals include the following:

- Tracking historical trends of marine mammal populations in geographic areas where our ships operate
- Utilizing software tools that help operators determine if an
 operating area has any particular aspects that could lead to harming
 a marine mammal. This allows ships and aircraft to analyze the
 training area where a specific exercise will take place and then use
 protective measures as appropriate.
- Scanning for animals with passive sonar, trained shipboard lookouts and available airborne assets prior to commencing an exercise. Navy lookouts are skilled in spotting small objects at sea under all conditions.
- Reducing sonar levels to 25% of operating power if whales or dolphins are detected within 450 yards of a Navy vessel's sonar dome
- Ceasing use of active sonar if a marine mammal if detected within 200 yards of an active source

The Navy's Marine Mammal Research

- The U.S. Navy is a world leader in marine mammal research, and spends \$10 - \$14 million annually on marine mammal research programs.
- In 2004 and 2005, U.S. Navy-funded research produced approximately 65 peer-reviewed articles in professional journals. Publication in open professional literature with thorough peer review is the benchmark for quality research.
- U.S. Navy-funded research has been favorably reviewed by three National Research Council panels over the past six years. It was also reviewed three times during that same period by panels of independent experts that returned strongly favorable conclusions concerning the quality of research emerging from the program.

Navy and Environmental Compliance

• Navy's policy is to operate in compliance with environmental laws. To this end, we analyze the potential effects of our training and operations on the environment and cooperate with environmental regulatory agencies as appropriate based on those effects. We seek authorization from the National Marine Fisheries Service under the Marine Mammal Protection Act, and/or consult with regulators under the Endangered Species Act, as required for our military readiness activities.

Additional Information

www.whalesandsonar.navy.mil

www.onr.navy.mil



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